

BAV99DW

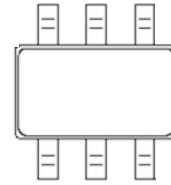
Switching Diode

FEATURE

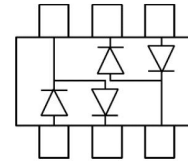
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RohsCompliant
- For Switching ApplicationsEquivalent Circuit
- Rugged And Reliable

MARKING: KJG

SOT-363



Schematic diagram



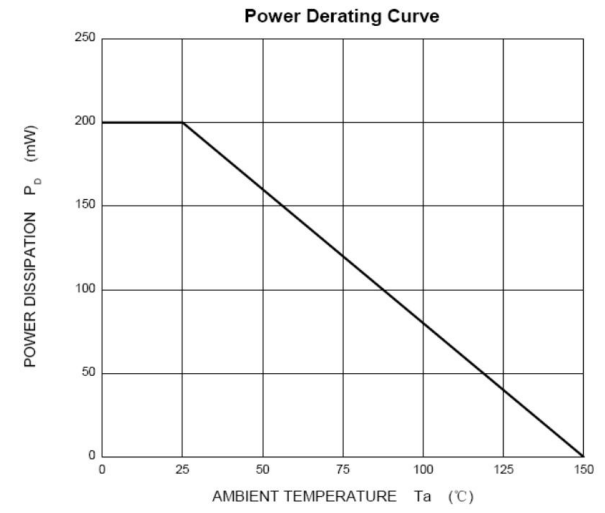
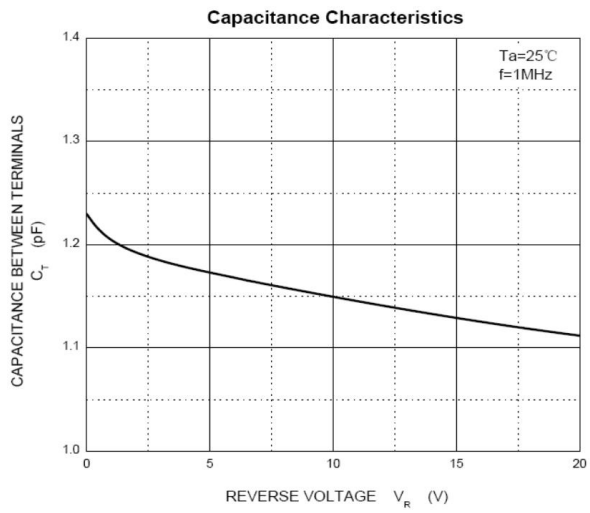
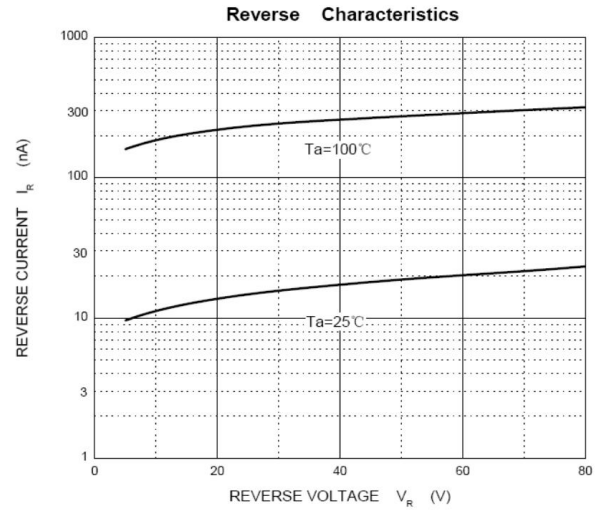
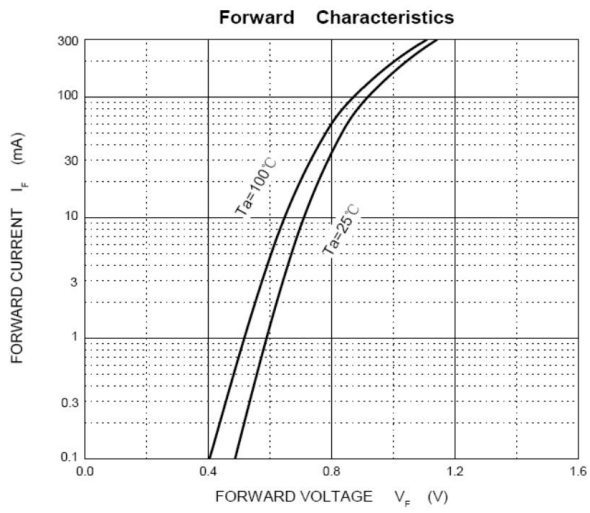
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	75	V
Continuous Forward Current	I_O	150	mA
Non-Repetitive Peak Forward Surge Current @ $t=8.3\text{ms}$	I_{FSM}	2.0	A
Power Dissipation	P_d	200	mW
Junction Temperature	T_J	-55 to +150	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}\text{C}$
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	625	$^{\circ}\text{C}/\text{W}$

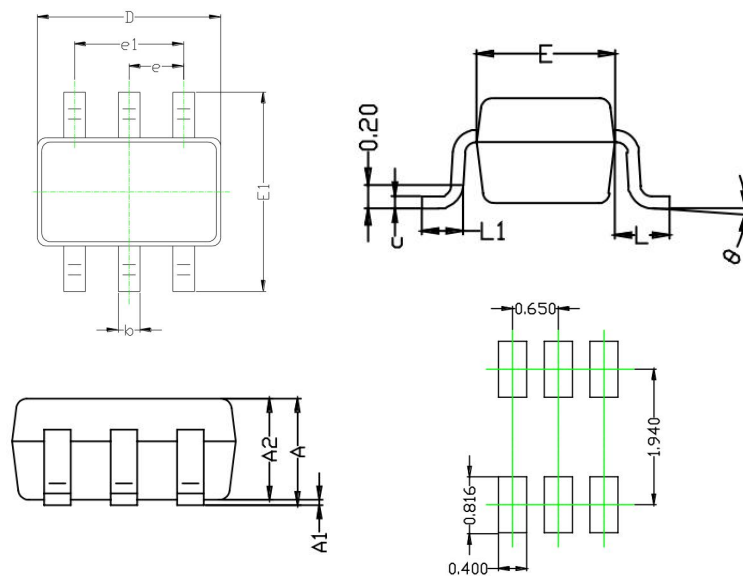
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Reverse Breakdown Voltage	V_R	$I_R=100\mu\text{A}$	75			V
Reverse Voltage Leakage Current	I_R	$V_R=20\text{V}$			0.025	μA
		$V_R=75\text{V}$			2.5	μA
Forward Voltage	V_F	$I_F=1.0\text{mA}$			0.715	V
		$I_F=10.0\text{mA}$			0.855	V
		$I_F=50.0\text{mA}$			1.00	V
		$I_F=150.0\text{mA}$			1.25	V
Diode Capacitance	C_T	$V_R=0.0\text{V}, f=1\text{MHZ}$			2.0	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}, I_{rr}=0.1 \times I_R, R_L=100\Omega$			4.0	nS

TYPICAL CHARACTERISTICS



SOT-363 Package Information



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	0.900	-	1.000
A1	0.00	-	0.100
A2	0.900	-	1.000
b	0.150	-	0.350
c	0.100	-	0.150
D	2.000	-	2.200
E	1.150	-	1.350
E1	2.150	-	2.400
e	0.650 TYP.		
e1	1.200	-	1.400
L	0.525 R		
L1	0.260	-	0.460
e	0°	-	8°

1. Unit mm